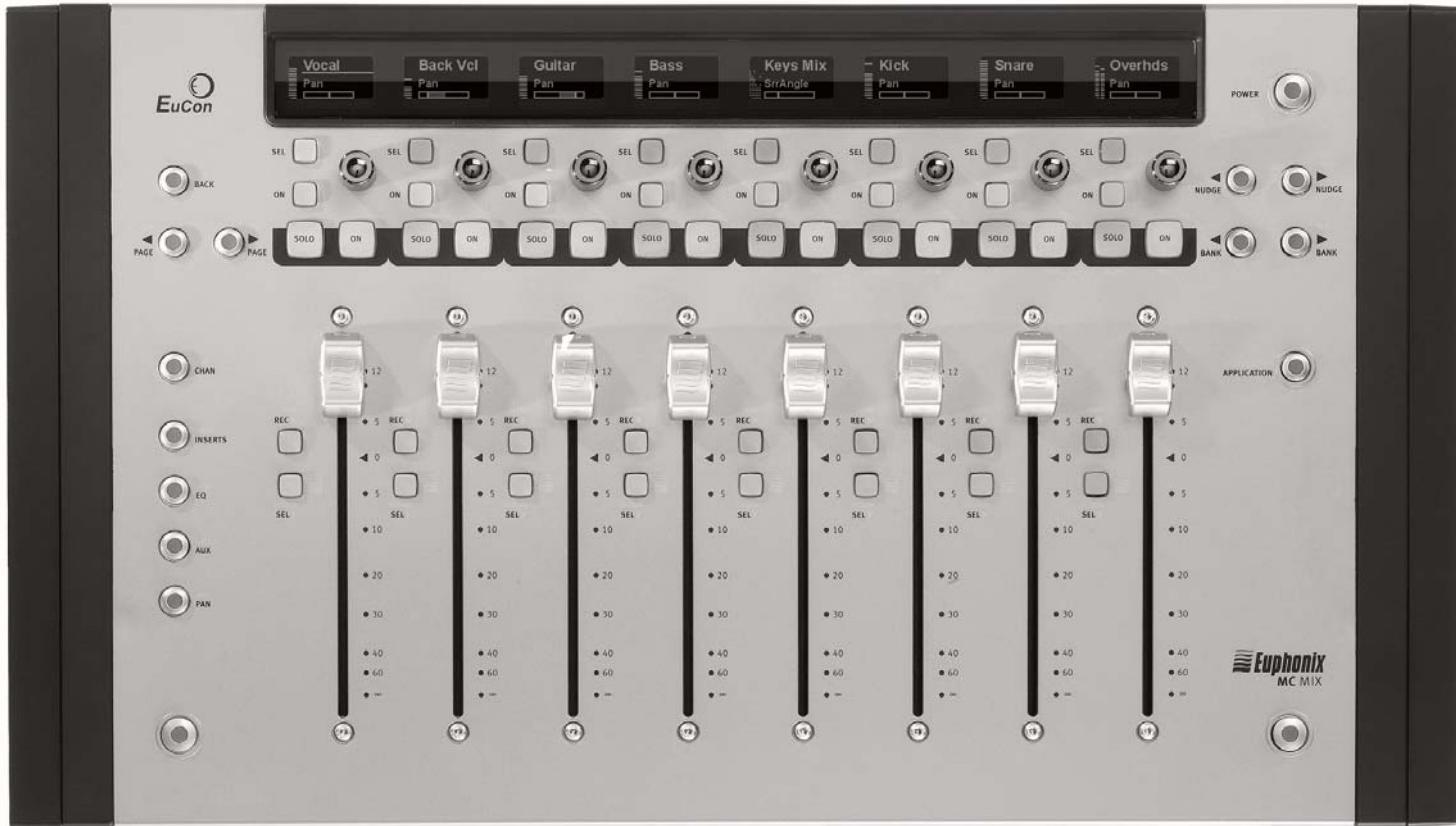




MC Mix

AUDIO | VIDEO MEDIA CONTROLLER



USER GUIDE

Document Revision: F

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

In the interest of continued product development, Euphonix reserves the right to make improvements to this manual and the product it describes at any time, without notice or obligation.

MC Control, MC Mix, MC Transport, MC Pro, System 5-MC, and EuCon are trademarks of Euphonix, Inc.

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Communications and Safety Regulation Information

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ii

Modifications made to the product, unless expressly approved by Euphonix, Inc., could void the user's authority to operate the equipment.

Always use a shielded Ethernet cable to connect to your MC Mix, such as the one supplied with the unit.

DECLARATION OF CONFORMITY

We Euphonix, Inc.,
1330 West Middlefield Road
Mountain View, CA, 94043 USA
(650) 855-0400

declare under our sole responsibility that the product
MC Mix

complies(y) with Part 15 of FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Canada

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

European Union



Australia



ABN 91 051 557 905

Japan

iii

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

IMPORTANT SAFETY INSTRUCTIONS



The lighting flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) This product must be connected to an AC power source that provides a safety earthing connection. This unit is provided with a power supply cord set appropriate for your area. Do not modify or defeat the safety earthing feature of the power cord.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) **WARNING – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.**
- 16) Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- 17) To completely disconnect this equipment from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
- 18) The mains plug of the power supply cord shall remain readily operable.
- 19) Operator Accessible Fuse (UK only):

Caution: For continued protection against risk of fire, replace only with same type and rating of fuse.

Attention: Pour ne pas compromettre la protection contre les risques d'incendie, remplacer par un fusible de même type et de même caractéristiques nominales.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Table of Contents

List of Figures	ix
Chapter 1: Introduction to the Artist Media Controller.....	11
Chapter 2: Setup and Installation	13
2.1 Setting Up the MC Mix	13
2.1.1 Elevating the MC Mix	13
2.1.2 Physically Linking Artist Media Controllers	14
2.2 Installation.....	16
Chapter 3: Common Tasks.....	21
Chapter 4: Surface Controls	25
4.1 Power Switch	26
4.2 Shift Key	26
4.3 Fader Strips	27
4.3.1 Display Screens	27
4.3.2 Fader	28
4.3.3 ON.....	28
4.3.4 SOLO	28
4.3.5 Transport Controls.....	29
4.3.6 SEL.....	30
4.3.7 ASSIGN	30
4.3.8 REC	30
4.3.9 AUTO	30
4.4 Fader Navigation Controls	31
4.4.1 BANK and NUDGE	31
4.4.2 MIXER and CLOSE	32
4.4.3 HOME and END	32
4.4.4 Navigating Among Multiple MC Mixes	32

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.5	Knobs	33
4.5.1	Basic Knob Use	33
4.5.2	Knob Modes	34
4.5.3	Knob Set Selector Keys	35
4.5.4	Dual-Function Knobs.....	36
4.5.5	Knob Set Navigation Keys	37
4.5.6	Knob Sets and Multiple MC Mixes	38
4.6	APPLICATION	38
4.7	WORKSTATION	38
Chapter 5:	EuControl	39
5.1	Surfaces.....	40
5.2	Workstations.....	43
5.3	General	45
5.3.1	General Preferences	45
5.3.2	Solo Mode	46
5.3.3	Wheel Sensitivity	46
5.4	Preferences.....	47
5.4.1	MC Mix and MC Transport display screen dim time	47
5.4.2	Footswitch.....	47
5.4.3	MC Control Display	48
5.5	Assign.....	49
5.5.1	Display application's track numbers.....	50
5.5.2	Lock to application	50
5.5.3	Clear All Assignments	50
5.6	Layouts	51
5.6.1	Recall	51
5.6.2	Store	51
5.6.3	Clear	51
5.6.4	Clear All.....	51
5.7	Soft Keys.....	52
Appendix A:	Setting the IP Address	53

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

List of Figures

1-1	Artist Series media controllers	11
2-1	Foldout leg (left); riser bracket (right)	13
2-2	Removing side panels (left); removing riser brackets	14
2-3	Removing screws from the bottom panel	15
2-4	Removing connecting part and side panel	15
2-5	MC Mixes attached by connecting at side panel	15
2-6	Menu bar with EuControl icon	16
2-7	Connecting the power adapter	16
2-8	Ethernet cable and rear panel jack	17
2-9	MC Mix connected to router (left) and directly to computer (right)	17
2-10	FOOTSWITCH input on rear panel	19
3-1	Strip 1 fader SEL key	21
3-2	NUDGE and BANK keys	22
3-3	Shift keys	22
3-4	Fader strip, INSERTS and CHAN keys	23
3-5	BACK and PAGE keys	24
4-1	MC Mix surface controls	25
4-2	Fader display indicators	27
4-3	Fader strip	28
4-4	Transport Controls	29
4-5	Fader navigation controls	31
4-6	Strips window moves over application tracks	31
4-7	Knob controls	33
4-8	Normal mode	34
4-9	Channel mode	34
4-10	Flip indicator in OLED display	34

MC Mix
AUDIO | VIDEO MEDIA CONTROLLER

4-11	Knob Selector keys	35
4-12	Knob Set navigation keys	37
5-1	Selecting EuControl Settings from the taskbar	39
5-2	Surfaces tab	40
5-3	Workstations tab	43
5-4	General tab	45
5-5	Preferences tab	47
5-6	Assign tab	49
5-7	Layouts tab	51
A-1	Use DHCP yes (left); Use DHCP no (right)	53
A-2	IP Address displays	54
A-3	Subnet Mask display	54

X

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Chapter 1: Introduction to the Artist Media Controller

The MC Control, MC Mix, and MC Transport comprise the Artist Series family of media controllers. They use a 100 Mbs Ethernet *EuCon* connection to control audio/video applications running on a workstation computer. EuCon is a high-speed communication protocol and enables control of virtually every application feature.

Each Artist media controller can run as a standalone device. Up to four MC Mixes can be used with an optional MC Control and/or MC Transport to create a larger control surface. The Artist media controllers borrow many features from the Euphonix MC Pro and System 5-MC.



Figure 1-1 Artist Series media controllers

11

The MC Mix supports two types of applications:

- *EuCon-aware* applications (i.e., Nuendo, Logic Pro) are written to directly support the EuCon protocol. They provide the highest level of integration, high-resolution controls, and high-speed connectivity.
- *Non-EuCon-aware* applications that support Mackie Control or HUI (i.e., Pro Tools, Final Cut Pro and Digital Performer) can control many functions but are less integrated than EuCon-aware applications.

The MC Control can provide some functionality over non-EuCon-aware applications that do not support HUI or Mackie Control by sending out keystroke commands over EuCon.

EuControl Software

The *EuControl* software application is responsible for finding, linking, and communicating with all MC Mixes and MC Controls on the network. EuControl must be installed on the workstation computer that runs the applications before using the Artist media controllers.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Conventions Used in this User Guide

The User Guide refers to all functions labeled on the MC Mix surface and rear panel with all caps in bold type (i.e., **NUUDGE ▶, PAN, SEL, SOLO**).

The Shift key is used in conjunction with other keys to access secondary functions labeled in **blue** above the primary function. Two Shift keys are located at the MC Mix's bottom-left and -right. To describe Shift functions simply, "press and hold the Shift key then press the **AUX** key" is written as "press the **GROUP** key."

Track refers to an application's track, while *fader strip* or *strip* refers to the MC Mix's hardware fader strip.

How to Use the PDF

The Acrobat PDF version of this manual can be a valuable online help learning tool while using the MC. These are some useful features of the PDF:

- The Bookmarks on the left serve as a continuously visible table of contents. Click on a subject heading to jump to that page. Click a + symbol to expand that heading to show subheadings. Click the - symbol to collapse a sub-heading.
- The manual's table of contents and list of figures are *active links* to their pages. Select the hand cursor, allow it to hover over the heading until it turns into a finger. Then click to locate to that subject and page.
- All cross references are active links. Allow the hand cursor to hover over the reference until it turns into a finger and click to follow the reference.
- Use the left and right arrow keys on the bottom bar to go back and forth between views. This is a great way to follow a cross reference and return to the page from which you were reading.
- Select the **Find** item from the Edit menu (Ctrl-F) to search for a subject. This can be used as an "index on the fly."
- Use the magnifying glass tool or the zoom edit box on the top bar to zoom in/out. This is helpful when examining a complex graphic or setting the text size for easy reading online.

Acrobat Reader version 6 or later is required to open the PDF. This can be downloaded for free from:

<http://www.adobe.com/products/acrobat/readstep2.html>

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Chapter 2: Setup and Installation

Euphonix is dedicated to making your MC Mix experience enjoyable and trouble-free so we will periodically update the following software and documentation:

- **EuControl:** This software runs your MC Mix and communicates to your audio/video application. Always download the new version if prompted to do so when you launch EuControl.
- **MC Mix User Guide (PDF):** This is the complete user guide for your MC Mix and the document you are currently reading.
- **EuCon Application Setup Guide (PDF):** The MC Mix supports many applications, each with a slightly different setup procedure. This document includes supplementary instructions for each application.

Before proceeding, download the latest versions from:
www.euphonix.com/artist/support

2.1 Setting Up the MC Mix

Unpack your MC Mix, power adapter, AC power cord, installation CD, Ethernet crossover cable, and riser brackets from its box.

13

2.1.1 Elevating the MC Mix

The MC Mix can be elevated *or* angled using small foldout legs on the bottom of the unit or elevated *and* angled by attaching the larger riser brackets. Since either method requires turning the MC Mix over, it is easier to do this before attaching any cables. Turn it over and place it on a soft surface.

Pull out all four of the small foldout legs to moderately elevate the unit; pull out only the back two to angle the unit towards you (Figure 2-1 left).

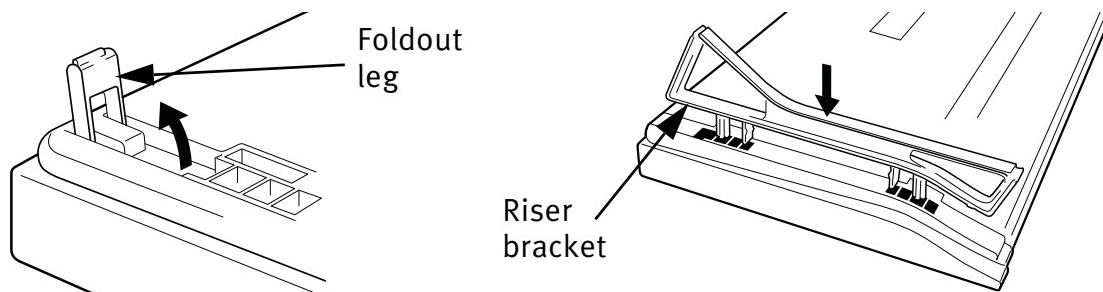


Figure 2-1 Foldout leg (left); riser bracket (right)

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Two larger, detached riser brackets elevate and angle the unit more than the foldout legs. Use moderate force to snap them into the bottom panel as shown in Figure 2-1.

To remove the riser brackets:

1. Slide the side panels off (Figure 2-2 left).

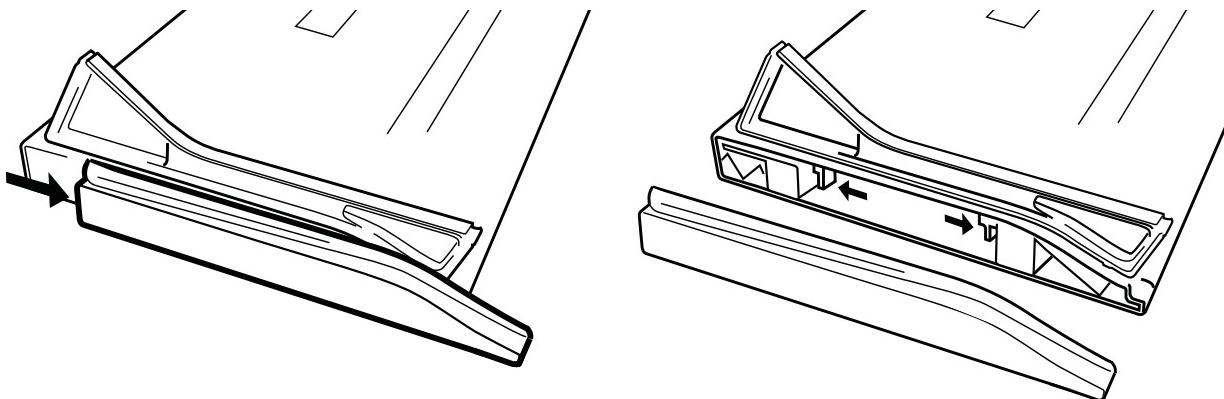


Figure 2-2 Removing side panels (left); removing riser brackets

2. Press the tabs to release the riser brackets (Figure 2-2 right).
3. Lift the riser bracket out of the MC Mix to remove

2.1.2 Physically Linking Artist Media Controllers

Up to four MC Mixes can be physically attached to each other to form a larger, stable control surface. An MC Control and/or MC Transport can also be joined to the MC mixes. See *Surfaces* on page 40 to use EuControl to link the surfaces in the desired order.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

To join two MC Mixes (or an MC Mix and MC Control):

1. On one of the MC Mixes, use a #2 Phillips screwdriver to remove the two silver screws (Figure 2-3).

The screws may be tight, so you may have to use some force.

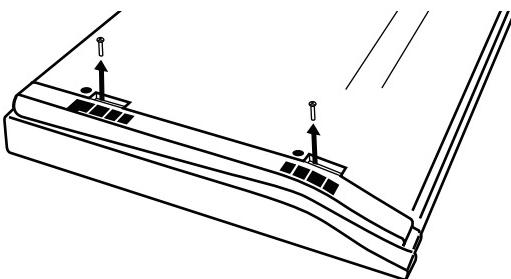


Figure 2-3 Removing screws from the bottom panel

2. Lift the black plastic connecting part and side panel up and out of the MC Mix (Figure 2-4).

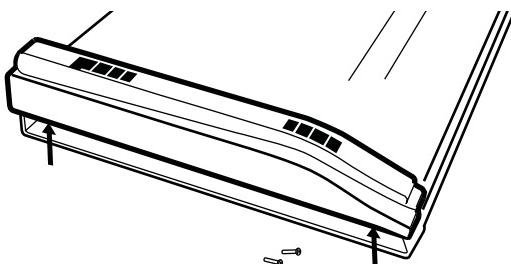


Figure 2-4 Removing connecting part and side panel

3. On the second MC Mix, remove the side panel (see Figure 2-2 left) on the end where it will attach to the first MC mix.
4. Slide the connecting part of the second MC Mix into first MC Mix to attach them together (Figure 2-5).

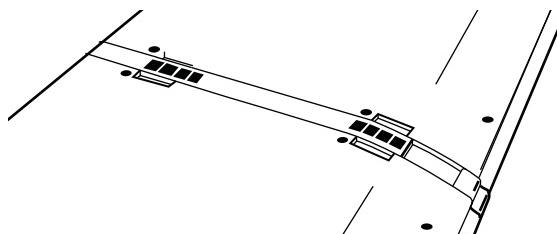


Figure 2-5 MC Mixes attached by connecting at side panel

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

2.2 Installation

1. If you downloaded the latest software from the web, double-click the installer. Otherwise, insert the installation CD into your Macintosh.

NOTE: Be sure to eject the installation CD in your Mac if you downloaded the latest software from the web.

2. Follow the instructions to install the software.

If prompted to download the most current version of EuControl, follow the onscreen instructions.

EuControl will launch automatically and is running when this icon  appears in your menu bar.

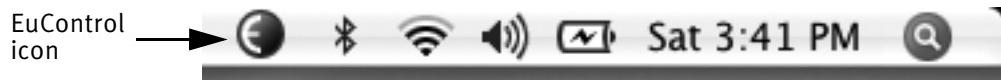


Figure 2-6 Menu bar with EuControl icon

16

3. Shut down your Macintosh.
4. Plug one end of the AC power cord into the power adapter (Figure 2-7 left) and the other into a power outlet. Make sure the AC power cord is pushed all the way into the adapter.

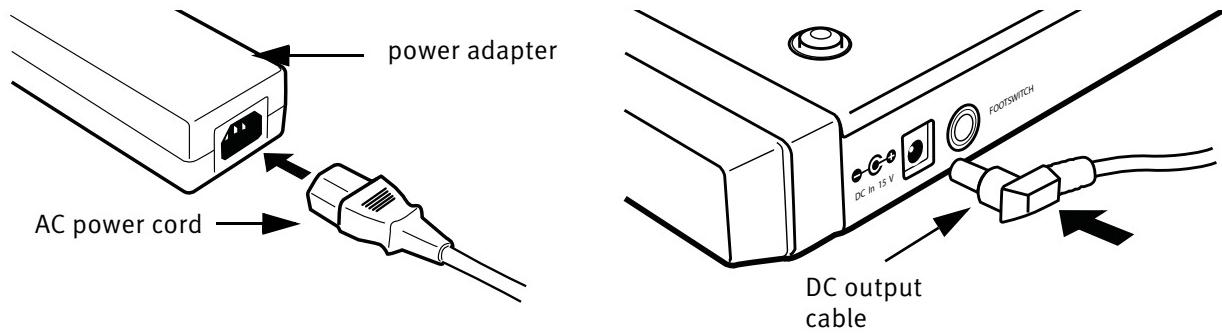


Figure 2-7 Connecting the power adapter

5. Connect the DC output cable from the power adapter to **DC In** on the left side of the rear panel (Figure 2-7 right).

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

6. Plug one end of the Ethernet crossover cable into the Ethernet jack (labeled with ) on the rear panel of the MC Mix (Figure 2-8).

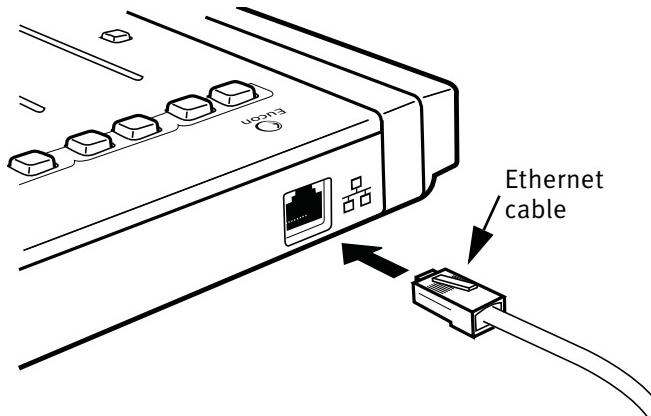


Figure 2-8 Ethernet cable and rear panel jack

7. Plug the other end of the Ethernet crossover cable into an open Ethernet jack on your computer, router, or Ethernet switch (Figure 2-9).

An Ethernet router or switch is required to connect additional MC Mix units or to a local area network. Note that connecting directly to the computer (Figure 2-9-right) may require removing your Internet cable.

If you have a Mac with two Ethernet ports, use Ethernet 1, not Ethernet 2.

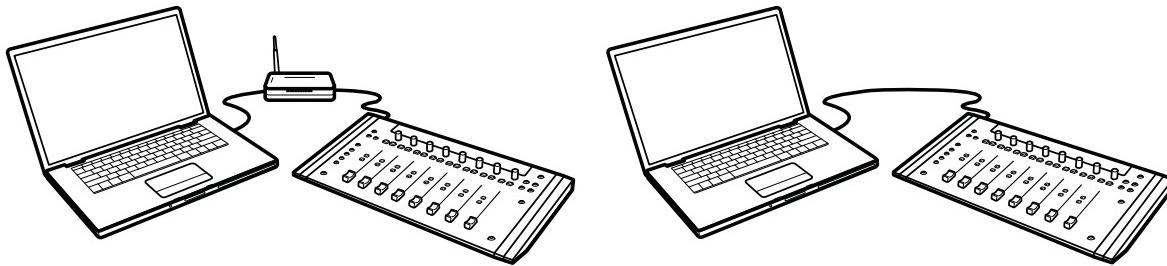


Figure 2-9 MC Mix connected to router (left) and directly to computer (right)

8. Turn on your router (if applicable), then turn on your Mac and wait until it finishes starting up.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

9. Press and release the **POWER** switch on your MC Mix.

Look at the top-right of your screen and wait up to 60 seconds. A green icon  in the menu bar indicates correct installation.

If you did not see the green icon:

- See *My Surfaces* on page 40 and add the MC Mix manually.
- Shut down the MC Mix and the Mac and repeat steps 8 and 9.
- If your Mac is pre-2002 and you are using an Ethernet router or switch, you need to purchase a normal straight-through Ethernet cable (instead of the crossover Ethernet cable supplied) from a computer store.
- See www.euphonix.com/artist/support for the most current troubleshooting information.

10. If you downloaded the latest software from the web, you may need to update the firmware on your Artist media controllers. See *Update Firmware* on page 41 for instructions.
11. Launch your application and open a project (Logic, Cubase, Digital Performer, Pro Tools, etc.).
12. To set up your application to work with the MC Mix, refer to the *EuCon Application Setup Guide* that you downloaded at the beginning of this section.

Controlling a Second Workstation

The MC Mix can control applications running on a second computer, referred to in this guide as a *workstation*. Most users will not need to do this because EuControl will be running on the same workstation as their audio/video applications.

Insert the installation CD into your Macintosh or, if you downloaded the latest software from the web, double-click on the installer. Follow the instructions to install the software.

NOTE: Be sure to eject the installation CD in your Mac if you downloaded the latest software from the web.

Copy the latest software that you downloaded at the beginning of this chapter over to the second workstation. Double-click the *Install EuCon Workstation* installer in the *Extras* folder and follow the instructions to install the EuCon software.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Connecting a Footswitch

The MC Mix has a 1/4-in **FOOTSWITCH** input on the rear panel. The footswitch can be used to punch in and out of recording. Plug the footswitch in before powering on the MC Mix. See page 47 for details.

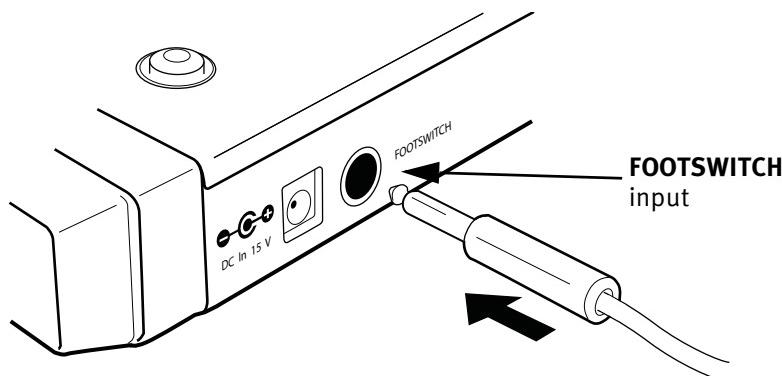


Figure 2-10 FOOTSWITCH input on rear panel

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Chapter 3: Common Tasks

If you completed the steps in Chapter 2: *Setup and Installation*, you are ready to start learning about your MC Mix. We recommend performing these simple tutorials of common tasks in the order presented.

Fader Strip

1. Press the MC Mix's strip 1 fader **SEL** key (Figure 3-1).

The corresponding track is selected in your application.

2. Move the MC Mix's strip 1 fader up and down.

You are now controlling the level of your application's first track with your MC Mix. The display at the top of strip 1 shows track information.

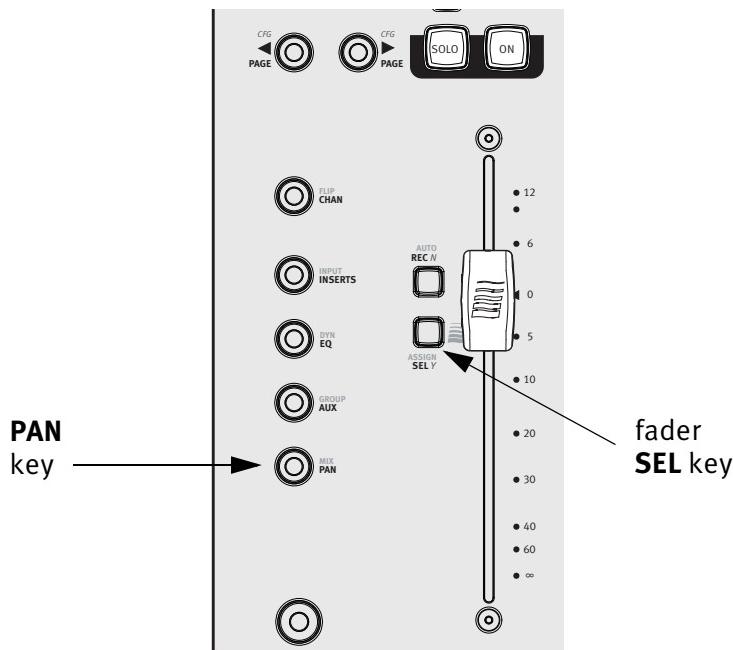


Figure 3-1 Strip 1 fader **SEL** key

3. When the MC Mix is first powered up, the **PAN** key is lit by default. If it is not press the **PAN** key (Figure 3-1).

Each strip's Soft Knob now controls pan for its application's corresponding track.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4. Press the **NUUDGE ►** key to move all eight tracks over one strip (Figure 3-2).

If tracks 1–8 were assigned to strips 1–8, tracks 2–9 are now assigned to strips 1–8.

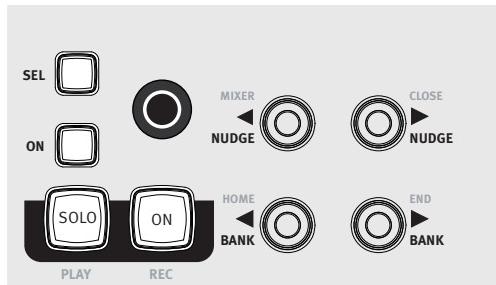


Figure 3-2 NUDGE and BANK keys

5. Press the **HOME** key (Figure 3-2) to restore tracks 1–8 to strips 1–8.

The Shift key is used in conjunction with other keys to access secondary functions labeled in blue above the primary function. In this case, the **HOME** function is accessed by pressing Shift + **BANK ◀**.

Two Shift keys are located at the MC Mix's bottom-left and -right.

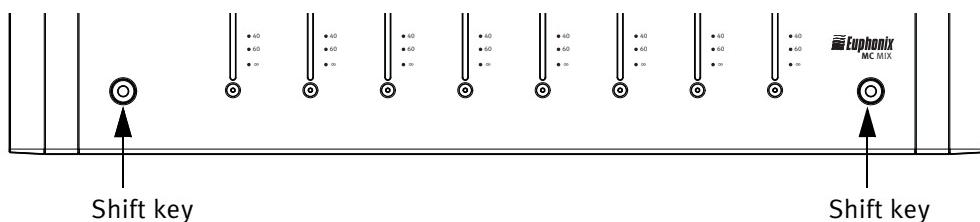


Figure 3-3 Shift keys

6. Press the **BANK ►** key to shift tracks over eight at a time (Figure 3-2).

If tracks 1–8 were assigned to strips 1–8, tracks 9–16 are now assigned to strips 1–8.

NUUDGE ◀ and **BANK ◀** keys perform the same operations in the opposite direction.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Inserts

1. Add a plug-in on track 1 of your application.
2. If tracks 1–8 are not assigned to strips 1–8, press the **HOME** key (Figure 3-2) to restore tracks 1–8 to strips 1–8.
3. Press the MC Mix’s strip 1 fader **SEL** key (Figure 3-4).
4. Press the **CHAN** key to enter channel mode (Figure 3-4).

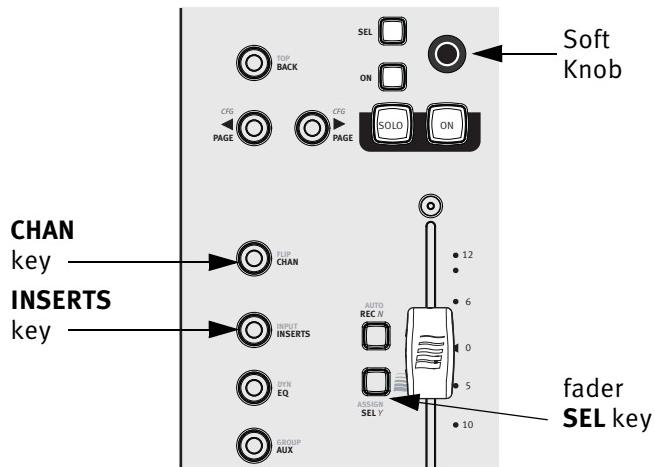


Figure 3-4 Fader strip, **INSERTS** and **CHAN** keys

5. Press the **INSERTS** key (Figure 3-4).
The names of the plug-ins on that track spill across the display screens.
6. Press the Soft Knob (Figure 3-4) below the desired plug-in’s name to select it.
The Soft Knobs can be turned like a conventional knob and pressed like a switch to access an additional function.
The parameters of that plug-in spill across the display screens.
7. Turn the Soft Knob below the desired parameter to adjust its value.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

8. Press the **PAGE** keys to access more parameters (Figure 3-5).

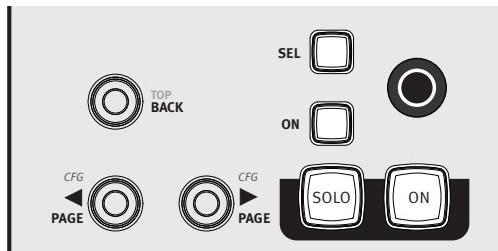


Figure 3-5 BACK and PAGE keys

9. Press the **BACK** key to exit that plug-in (Figure 3-5).
10. Press the **CHAN** key to exit channel mode (Figure 3-4).

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Chapter 4: Surface Controls

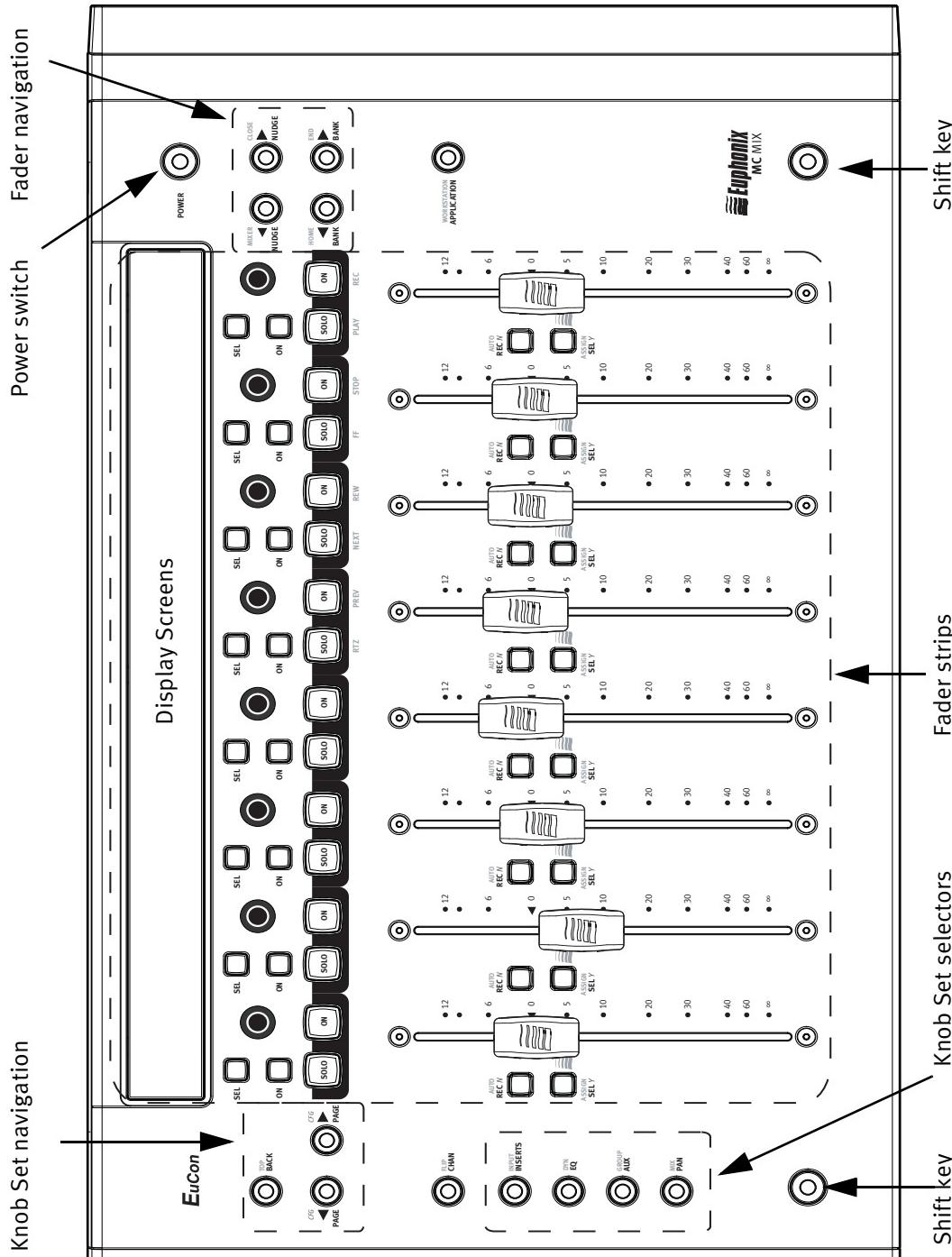


Figure 4-1 MC Mix surface controls

4.1 Power Switch

Press and release the **POWER** switch to turn the MC Mix on/off.

- All displays shows a Euphonix logo upon power up.
- All activity on the displays and LEDs ceases upon power down.

4.2 Shift Key

The Shift key is used in conjunction with other keys to access secondary functions labeled in **blue** above the primary function. Two Shift keys are located at the MC Mix's bottom-left and -right.

The following simplified terminology is used describe Shift functions:

“Press and hold the Shift key then press the **AUX** key”

is written as

“press the **GROUP** key”

26

The Shift key can be locked on like **caps lock** on a computer keyboard by pressing both Shift keys simultaneously. This is useful if you plan to access several Shift functions consecutively. Press either Shift key to unlock.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.3 Fader Strips

The MC Mix provides eight fader strips, each with a touch-sensitive fader and a touch-sensitive knob, that control *tracks* in an audio or video application.

4.3.1 Display Screens

At the top of each fader strip is a 128 x 64 pixel Organic Light Emitting Diode (OLED) display that shows the following items:

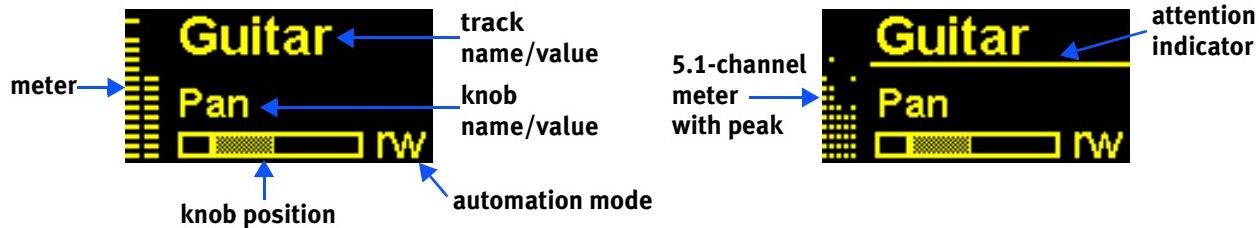


Figure 4-2 Fader display indicators

Meter shows clip, peak, and normal values. It can show mono, stereo, or surround sound tracks.

27

Track name shows the name of the track. When a fader is touched, it shows the value of the fader. After releasing the fader it reverts to showing the track name.

Knob name shows the name of the parameter currently on the knob. When a knob is touched, it shows the value of the parameter. After releasing the knob it reverts to showing the parameter name.

Knob position graphically shows the value of the knob.

Auto mode shows the track's automation mode (blank = neither read nor write, r = read, w = write, rw = read/write).

Attention indicator is a line under the track name that shows this strip contains the *attentioned* track (see *Channel Mode* on page 34).

OLED Dimming

To preserve OLED life, the channel displays dim when not in use. The time until dimming begins can be set in *Wheel Sensitivity* on page 46.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.3.2 Fader

The fader controls the track assigned to this strip. It is motorized so it reflects changes made in the application, such as automation. It is also touch sensitive, which some applications use when automating.

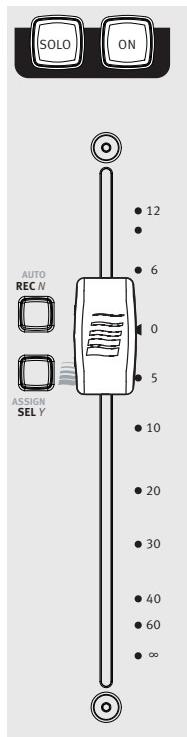


Figure 4-3 Fader strip

When the **Select by Touch** General preference is selected (page 45), touching a fader selects that track in the application and attention it on that strip. This is the same as pressing the fader **Sel** key.

Holding down the Shift key and touching a fader sets it to unity gain.

4.3.3 ON

The track is on (unmuted) when the strip's **On** key is lit and off (muted) when the strip's **On** key is not lit.

4.3.4 SOLO

The **SOLO** key lights red when that strip's track is soloed and is unlit otherwise.

MC Mix

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4.3.5 Transport Controls

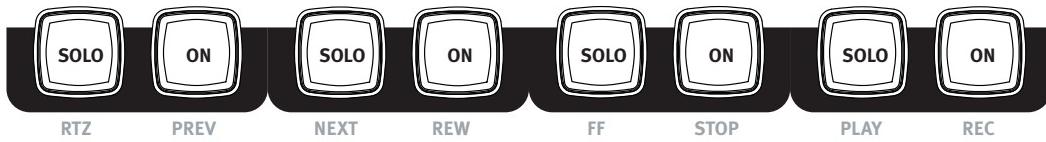


Figure 4-4 Transport Controls

RTZ

Press **RTZ** (Return To Zero) to move to the beginning of the project.

PREV

Press **PREV** to move to the previous marker. Not all applications support markers.

NEXT

Press **NEXT** to move to the next marker. Not all applications support markers.

REW

Press **REW** to rewind. This function varies with the application.

29

Implementations include:

- Rewind until **STOP** or another key is pressed.
- Rewind a fixed amount.
- Rewind until the **REW** key is released.

FF

Press **FF** to fast forward. This function varies with the application.

Implementations include:

- Fast forward until **STOP** or another key is pressed.
- Fast forward a fixed amount.
- Fast forward until the **FF** key is released.

STOP

Press **STOP** to stop all other functions.

PLAY

Press **PLAY** to play the project from the current location.

REC

Press **REC** begin recording at the current location. All tracks armed for recording are punched into record.

4.3.6 SEL

Pressing a fader's **SEL** key selects that track in the application and attentions (see *Channel Mode* on page 34) it on the MC Mix.

NOTE: *Some applications allow selecting multiple tracks if the Shift key on the workstation is held down while selecting tracks. In this case, the attentioned track is the last one selected.*

30

4.3.7 ASSIGN

Press the **ASSIGN** key to display the Assign tab in the EuControl Settings dialog (see *Assign* on page 49).

4.3.8 REC

Press the **REC** key to enable recording on a track. The **REC** key lights red to indicate that track is enabled (*armed*) for recording. Press the **REC** key to cancel a track enabled for recording.

NOTE: *Some applications blink the REC LED when armed but not recording and light solid when recording.*

4.3.9 AUTO

To change an application track's automation mode, press the **AUTO** key until the desired automation mode appears in the channel display.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.4 Fader Navigation Controls

Scroll through the application's *tracks* using the **BANK** and **NUDGE** keys. **HOME** and **END** are shortcuts to the first and last banks, respectively.

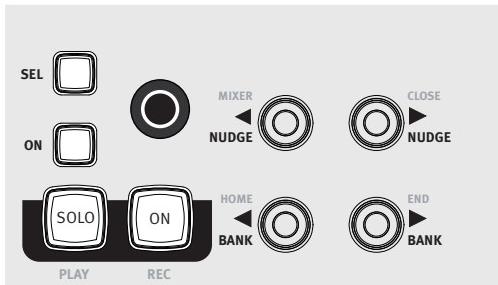


Figure 4-5 Fader navigation controls

4.4.1 BANK and NUDGE

The **BANK** and **NUDGE** keys change which tracks are assigned to the strips. The eight strips can be thought of as a window that moves in the direction indicated by the arrow over the application's tracks (Figure 4-6).

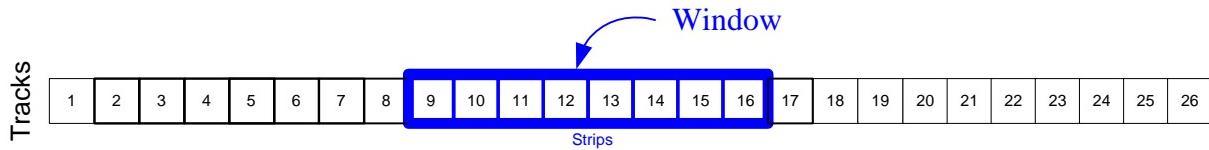


Figure 4-6 Strips window moves over application tracks

NUDGE ◀

Moves the window *one track* to the left. If strips 1–8 had tracks 9–16, they now have tracks 8–15.

NUDGE ▶

Moves the window *one track* to the right. If strips 1–8 had tracks 9–16, they now have tracks 10–17.

BANK ◀

Moves the window *one bank* (eight tracks) to the left. If strips 1–8 had the bank starting at track 9, they now have the bank starting with track 1. Pressing **BANK ◀** again does nothing because the first bank is already shown.

BANK ▶

Moves the window *one bank* (eight tracks) to the right. If strips 1–8 had the bank starting at track 9, they now have the bank starting with track 17.

4.4.2 MIXER and CLOSE

Not all applications support these keys.

MIXER

Opens and closes the application's mixer window.

CLOSE

Closes any open window or dialog box on the application.

4.4.3 HOME and END**HOME**

Moves to the first bank with tracks 1–8 assigned to strips 1–8.

END

Moves to the last bank.

4.4.4 Navigating Among Multiple MC Mixes

Multiple MC Mixes act as one big control surface with a bank size of eight tracks. For example, three linked MC Mixes can show 24 contiguous tracks. The **BANK** and **NUDGE** keys perform the identical actions on the combined set of tracks.

MC Mix

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4.5 Knobs

Each fader strip has one touch-sensitive, continuously rotating knob that adjusts parameters such as pan and aux send levels. The knob has a built-in switch allowing it to be pressed from the top. This is called the Knob Top key and is typically used to access sub-menus but also to turn parameters on/off.

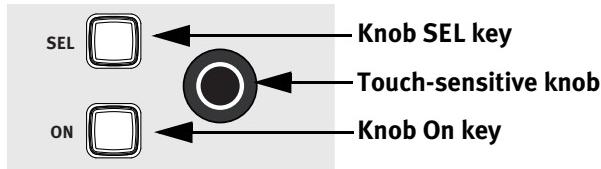


Figure 4-7 Knob controls

Each knob has the following controls:

- The **ON** key toggles two-state parameters, such as EQ Band 1 on/off.
- The **SEL** key changes the knob function or toggles a secondary function's value, such as an aux send pre/post fader.

4.5.1 Basic Knob Use

33

When the MC Mix is first powered on, the knobs are in normal mode (see *Knob Modes* on page 34). Each knob controls the left/right pan parameter for its track on the strip.

The knob selector keys can quickly access common parameters in normal mode:

- Press **AUX** to assign each track's first aux send to each knob. Press **PAGE ▶** to assign the next aux send to the knob. Pressing **PAGE ◀** returns to the previous aux send.
- Press **PAN** to assign the track's left/right pan control to each knob.

It is also possible to edit plug-ins, EQ, dynamics, and other functions on the knobs.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.5.2 Knob Modes

The eight knobs can be in *normal* or *channel* modes.

Normal Mode

Each knob controls the same parameter for every track on the strips.



Figure 4-8 Normal mode

Channel Mode

Channel mode is useful for editing EQs and plug-ins that have many parameters. The eight knobs control up to eight different parameters on a single *attentioned* track. Press a fader **SEL** key (page 30) to attention that track. Channel mode is denoted in the OLED display by a grid of small yellow dots around each parameter name and knob position indicator. The attentioned track is further distinguished by these dots around its entire area including the track name (Figure 4-9).



Figure 4-9 Channel mode

CHAN Key

The **CHAN** key toggles between normal (**CHAN** key unlit) and channel mode (**CHAN** key lit). In normal mode, the attentioned track name is underlined (Figure 4-8) to show which track's parameters will be expanded in channel mode (Figure 4-9).

FLIP Key

The **FLIP** key toggles the fader controls to the knobs and vice versa. A vertical double arrow appears in the OLED display when the faders and knobs are flipped. Press the **FLIP** key again to toggle the faders and knobs back to normal.



Figure 4-10 Flip indicator in OLED display

MC Mix

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4.5.3 Knob Set Selector Keys

A *knob set* is an array of knobs used by EuCon applications to control plug-ins, EQs, dynamics, aux sends, etc. One of the eight Knob Set Selector keys is always selected and lit and displays its knob set until another Knob Set Selector key is pressed. When the MC Mix first starts, the **PAN** knob set is selected by default.

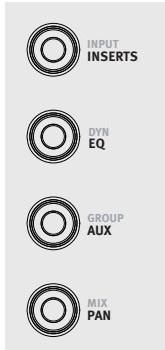


Figure 4-11 Knob Selector keys

The Knob Set Selector keys enter the MC Mix menu system. Some of these knob sets can display another knob set called a *sub-menu*. For example, the Inserts knob set shows the names of every plug-in inserted on the track, one plug-in name per knob (in channel mode). Pressing a plug-in's Knob Top key displays its parameters on the knobs for editing. This new knob set is a *sub-menu* of the Inserts knob set. Press the **BACK** key (page 38) to return to the top of the Inserts knob set.

Sub-menus are not directly supported in normal mode. When a sub-menu is entered in normal mode, the MC Mix automatically changes to channel mode and that track is attentioned and selected. When the top of that knob set is displayed again, normal mode resumes. Since sub-menus can be more than one level deep, this can be accomplished by pressing the **TOP** key (page 38) once or the **BACK** key repeatedly. However, you can simply press another Knob Selector key to navigate directly to another knob set.

INSERTS

Pressing the **INSERTS** key displays the inserts knob set for editing plug-ins. In normal mode, the first plug-in is displayed on the knob. Pressing one of these Knob Tops in normal mode toggles the MC Mix into channel mode and displays the first eight plug-in parameters for editing. Pressing a plug-in's Knob Top displays its parameters for editing.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

EQ

Press the **EQ** key to display the EQ knob set to configure equalization controls and filters. This automatically toggles the MC into channel mode and shows four EQ bands on eight knobs.

AUX

Press the **AUX** key to display the Aux knob set to control auxiliary sends. In normal mode, the first aux send is displayed. In normal mode, press the **PAGE ▶** key to advance to the second aux send. In channel mode, up to eight aux sends can be shown at once.

PAN

Press the **PAN** key to display the Pan knob set to configure left/right or surround panning. In normal mode, the left/right pan control is typically displayed. In channel mode, the first page of eight pan knobs is shown.

INPUT

Press the **INPUT** key to display the Input knob set to configure input routing, mic gains, phantom power, and other application-specific parameters.

DYN

Press the **DYN** key to display the Dynamics knob set to configure compressors, limiters, expanders, and gates.

GROUP

Press the **GROUP** key to display the Group knob set to configure group bus routing or control group (VCA) membership.

MIX

Press the **MIX** key to display the Mix knob set to configure output routing.

4.5.4 Dual-Function Knobs

Some knobs have two functions that are toggled by pressing the knob's **SEL** key (i.e., EQ Frequency and Q). The knob name changes in the display to show the current function. Dual-function knobs are supported in normal mode.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

4.5.5 Knob Set Navigation Keys

Since a knob set may have more parameters than knobs, the **PAGE** **◀** and **PAGE** **▶** keys scroll among them.

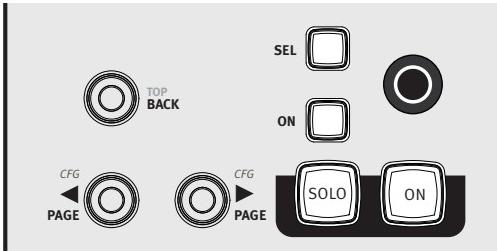


Figure 4-12 Knob Set navigation keys

PAGE **◀**

Press the **PAGE** **◀** key to scroll to the previous page. When on the first page, pressing **PAGE** **◀** key does nothing. The **PAGE** **◀** key lights yellow when there is a previous page to go to.

PAGE **▶**

Press the **PAGE** **▶** key to scroll to the next page. When on the last page, pressing the **PAGE** **▶** key does nothing. The **PAGE** **▶** key lights yellow when there is a next page to go to.

Configuration Pages (CFG)

Many knob sets have a *configuration page* to set up that knob set. The configuration page for the Inserts knob set, for example, is used to assign plug-ins to a track. The configuration page for the Aux knob set assigns aux sends to a track. Some applications can configure presets for plugins and EQs.

Press the **PAGE** **◀ + PAGE** **▶** keys simultaneously to display a knob set's configuration page, if it has one. When on the configuration page, both the **PAGE** **◀** and **PAGE** **▶** keys light.

NOTE: Configuration pages work only in channel mode.

BACK

Press the **BACK** key once to return to the previous knob set. Press the **BACK** key repeatedly to back out of all sub-menus and display the top of the current knob set.

TOP

Press the **TOP** key to immediately back out of all sub-menus and display the top of the current knob set. This is equivalent to pressing the **BACK** key repeatedly.

4.5.6 Knob Sets and Multiple MC Mixes

Up to four MC Mixes can be linked to form one large surface. See *My Surfaces* on page 40 to learn how to order the linked surfaces.

Press the **CHAN** key on any MC Mix to toggle all surfaces between normal and channel mode.

In channel mode, a knobset is displayed across all linked surfaces. For example, with two linked surfaces, a knobset is displayed on 16 knobs instead of eight. If the knobset has more knobs than the linked surfaces can display, navigate among them with the **PAGE** keys.

38

Press a Knob Set Selector key on any MC Mix to select that knob set on *all* MC Mixes.

4.6 APPLICATION

Press the **APPLICATION** key to toggle between the two most recently used open applications. Hold down the **APPLICATION** key and press **BANK ▶** to toggle between all open applications in a circle. Hold down the **APPLICATION** key and press **BANK ◀** to cycle through applications in the opposite direction.

4.7 WORKSTATION

The MC Mix can control applications running on a second computer, referred to in this guide as a *workstation*. Press the **WORKSTATION** key to attach the MC Mix to another workstation. You must first use EuControl to create a list of workstations that this key switches between (see *Workstations* on page 43).

While attached to a second workstation, your Mac's keyboard and mouse can be configured to control that workstation and not your Mac (see page 44).

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Chapter 5: EuControl

EuControl is launched automatically upon starting your Mac and runs in the background. EuControl is responsible for finding, linking, and communicating with all MC Mixes and MC Controls on the network. EuControl's configuration tasks are accessed by clicking the green icon  on the Mac taskbar and selecting **EuControl Settings**.

Only one instance of EuControl can run on a workstation. However, multiple workstations on a single network can each run EuControl. Each instance of EuControl can connect an MC Transport, an MC Control, and up to four MC Mixes on the network. These multiple Artist media controllers act together as a single control surface. Once connected, Artist media controllers are not available to other instances of EuControl until relinquished.



39

Figure 5-1 Selecting EuControl Settings from the taskbar

The tabs are discussed in the order (left to right) they appear at the top of the EuControl Settings dialog.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.1 Surfaces

The Surfaces tab shows all Artist media controllers on your network and those connected to your instance of EuControl.

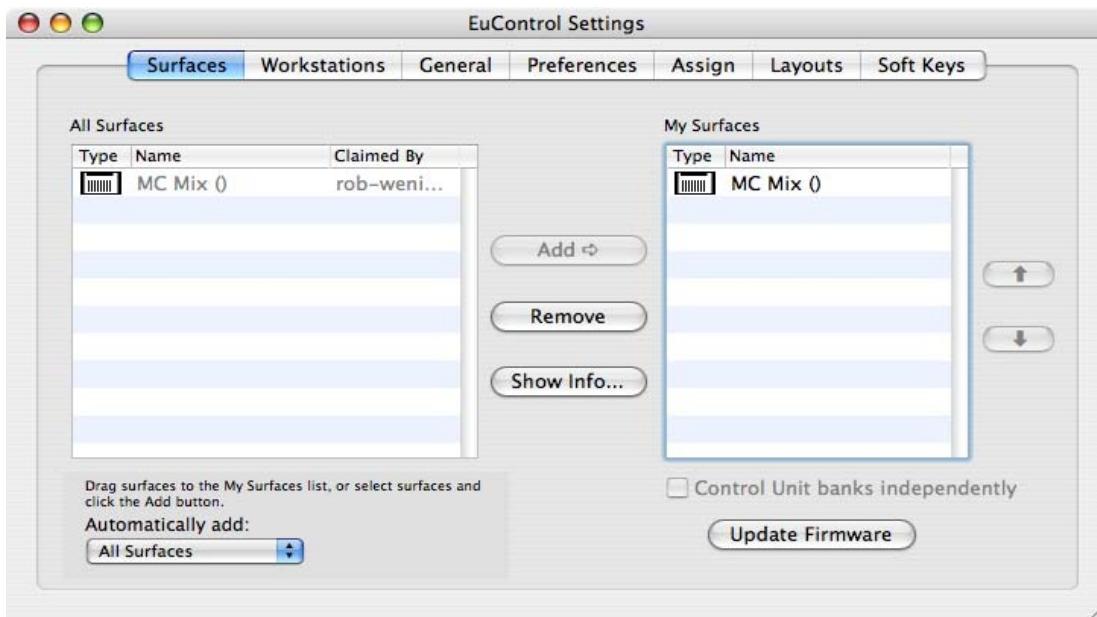


Figure 5-2 Surfaces tab

All Surfaces

All Surfaces shows all Artist media controllers on the network. An MC Mix shown in light gray is already connected either to your own or another instance of EuControl running on a different workstation. In both cases, it is not selectable.

My Surfaces

My Surfaces shows the Artist media controllers connected to your instance of EuControl. If there is more than one MC Mix in this list, they are linked into a single large surface.

The top-to-bottom order corresponds to the left-to-right order of the surfaces, respectively. The leftmost MC Mix has fader strip 1. Use the and buttons to reorder the list.

Each MC Mix can be renamed by double-clicking the existing name and typing a new name.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

Add ⇒

Click **Add ⇒** to add the selected All Surfaces entry to My Surfaces. This connects this MC Mix to your instance of EuControl. You can also click and drag an MC Mix from All Surfaces to My Surfaces.

Add ⇒ is disabled if all Artist media controllers in All Surfaces are connected to any instance of EuControl.

Remove

Click **Remove** to remove the selected surface from My Surfaces and make it available to other instances of EuControl.

Remove is disabled if no surface is selected.

Automatically Add

The **Automatically Add** menu has two settings that control what happens to stored Surfaces between shutdown and startup.

All Surfaces (default): This setting is best used when you are the only person running EuControl in your home or studio. It provides an easy plug-and-play experience by automatically adding your All Surfaces list to your My Surfaces list so you never have to manually edit the My Surfaces list.

My Surfaces Only: This setting is useful in facilities where other EuControl users are on your network. When EuControl starts, only the surfaces from your My Surfaces list are added. Because a surface can only be claimed by one user at a time, this avoids claiming another user's surfaces.

Update Firmware

Each time a new version of EuControl is installed, each MC Control and MC Mix in your system may need its firmware updated. The firmware is embedded in EuControl so an Internet connection is not required.

Select each Artist device in the My Surfaces list (shift-click to select multiple devices). Press **Update Firmware** to update their firmware. If a dialog displays a message that the firmware is up to date, no further action is necessary.

MC Mix

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Follow the instructions in the EuControl dialog box.

- The Artist media controllers must be plugged into a working power source.
- Do not power off any Artist media controllers during the update or attempt to interrupt the update.
- The status for each Artist device being updated is displayed on that device as well as in the EuControl dialog box.

Control unit banks independently

Select this checkbox to bank independently on a linked MC Control from other linked MC Mixes.

Show Info

Select an MC Mix and click **Show Info** to display the name and hardware/software information on strip 1's channel display and in a dialog on the Mac.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.2 Workstations

The MC Mix can control applications running on a second computer, referred to in this guide as a *workstation*. The Workstations tab establishes the list of workstations that the **WORKSTATION** key cycles through. Any workstation running EuCon software can be in this list, including those controlled by the System 5-MC, MC Pro, and MC Control.

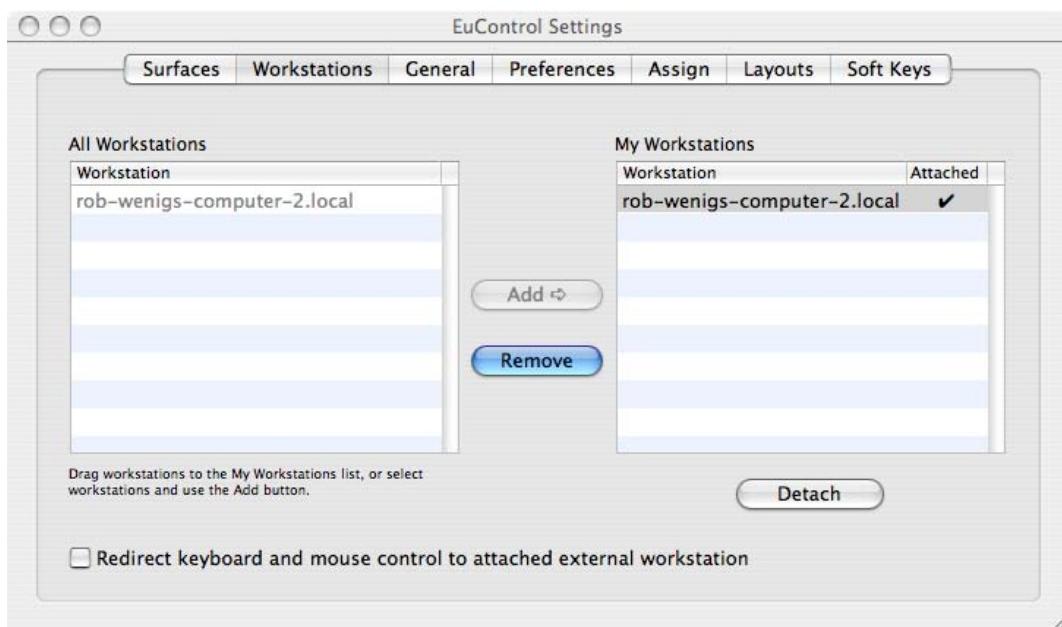


Figure 5-3 Workstations tab

All Workstations

All Workstations lists all EuCon-enabled workstations on the network. If the workstation is already in the My Workstations list, it is shown in gray and cannot be selected.

My Workstations

My Workstations lists the workstations that can be attached to by pressing the **WORKSTATION** key.

MC Mix

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It is possible to put a workstation in the My Workstations list that is already attached to another instance of EuControl running on another computer. It cannot be attached here until it is unattached from the other instance of EuControl. This was done to allow multiple users to share workstations without having to frequently edit their My Workstation list.

Add ⇒

Click **Add ⇒** to add the selected workstation from the All Workstations list to the My Workstations list. If the workstation is already in the My Workstations list, it is gray and cannot be selected.

Remove

Click **Remove** to remove the selected workstation from the My Workstations list.

Attach/Detach

Select a workstation in the My Workstations list and click **Attach**. A check mark appears in the Attach column next to that workstation. This workstation is now communicating with the MC Mix(es) connected to your instance of EuControl.

If the selected workstation is already attached, the button displays **Detach**.

Redirect keyboard and mouse control to attached external workstation

Your Mac's keyboard and mouse can control a second external workstation, if desired. Select this option to redirect keyboard and mouse control to the attached workstation. Note that the keyboard and mouse will no longer control your Mac. If this option is *not selected* (default setting), your keyboard and mouse control your Mac.

You can manually toggle control back and forth between your Mac and the attached external workstation by pressing **ctrl+option+**.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.3 General

This tab controls how the MC Mix and application software work together.



Figure 5-4 General tab

5.3.1 General Preferences

Workstation tracks knob set changes

The workstation is aware of which knobset is selected and displays appropriate controls.

Open plug-ins on workstation when editing

When a plug-in knobset is selected on the MC Mix, the workstation opens the plug-in's window.

Close plug-ins on workstation when editing

When a plug-in's knobset is navigated from on the MC Mix, the workstation closes the plug-in's window.

Select by Touch

Touching an MC Mix fader selects that track in the application and attention it on the MC Mix. This is the same as pressing the fader **SEL** key.

Auto-bank to selected track

Selecting a track in the application causes the MC Mix to display the bank containing that track. This keeps the selected track assigned to the surface.

Display track numbers on surface

The track number is included with the track name in the channel display.

5.3.2 Solo Mode

Not all applications support Solo mode. Those that support it behave as follows.

Solo in place

Mutes all tracks except solo track.

After-Fader Listen (AFL)

The Solo level is derived *after* fader level.

Pre-Fader Listen (PFL)

The Solo level is derived *before* fader level.

46

5.3.3 Wheel Sensitivity

The sensitivity of the **Jog Wheel** and **Shuttle Ring** can be precisely adjusted using the sliders shown in Figure 5-4. The top two sliders pertain to the MC Transport, the bottom is the **Jog Wheel** for the MC Control.

The center position is the default for each control. Click and drag a slider to move it right for faster response or left for a slower, more controlled movement. Click the **Reset** button to restore the center position.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.4 Preferences

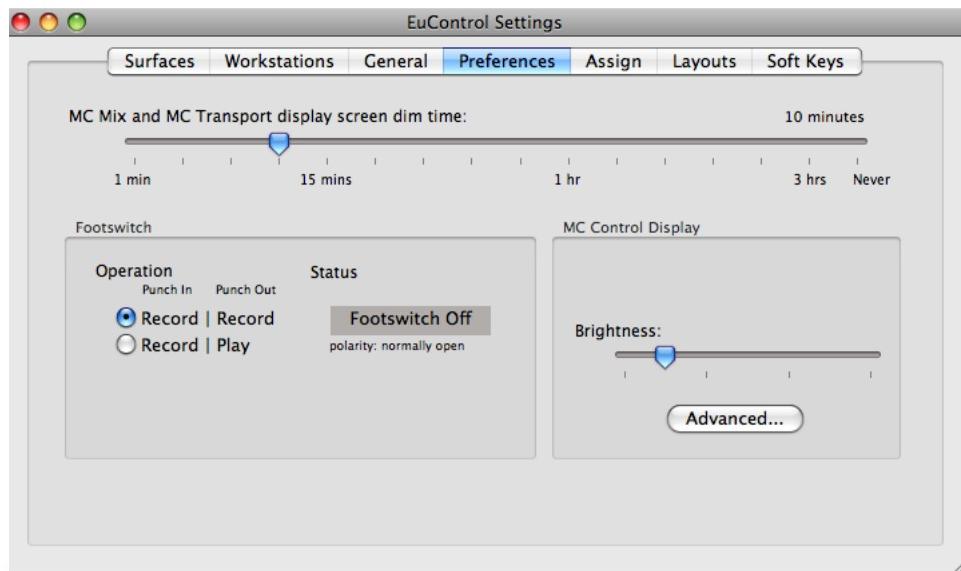


Figure 5-5 Preferences tab

5.4.1 MC Mix and MC Transport display screen dim time

47

Drag the slider to set the amount of inactive time before the MC Mix and MC Transport (if included) display screens dims to half intensity.

5.4.2 Footswitch

The footswitch punches in and out of recording. It is useful when recording and getting ready to play an instrument.

Two types of footswitches can be attached to an MC Mix:

- **Momentary** – There are two momentary types: normally open, push to close; normally closed, push to open.
- **Toggle** – Latches when pushed on; push again for off.

We recommend using one of the momentary types. The toggle type works, but requires two presses. The MC Mix automatically distinguishes between momentary types by checking whether the switch is open or closed upon power up.

MC Mix

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Operation

This category selects what happens when the footswitch is pressed. Choose the option that best suits your application.

Record | Record: Pressing the footswitch presses the **RECORD** button, which punches in to record. Releasing the footswitch does nothing. Pressing the footswitch again also presses the **RECORD** button, which punches out.

Record | Play: Pressing the footswitch the first time presses the **RECORD** button, which punches in. Releasing it does nothing. Pressing it a second time presses the **PLAY** button, which punches out of recording and continues playback.

Status

This field cannot be set but shows the current status of the footswitch (on/off) and its polarity.

5.4.3 MC Control Display

Drag the **Brightness** slider to adjust the MC Control Touchscreen display. Note that this control is gray and inactive if an MC Control is not connected to your instance of EuControl.

MC Mix

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5.5 Assign

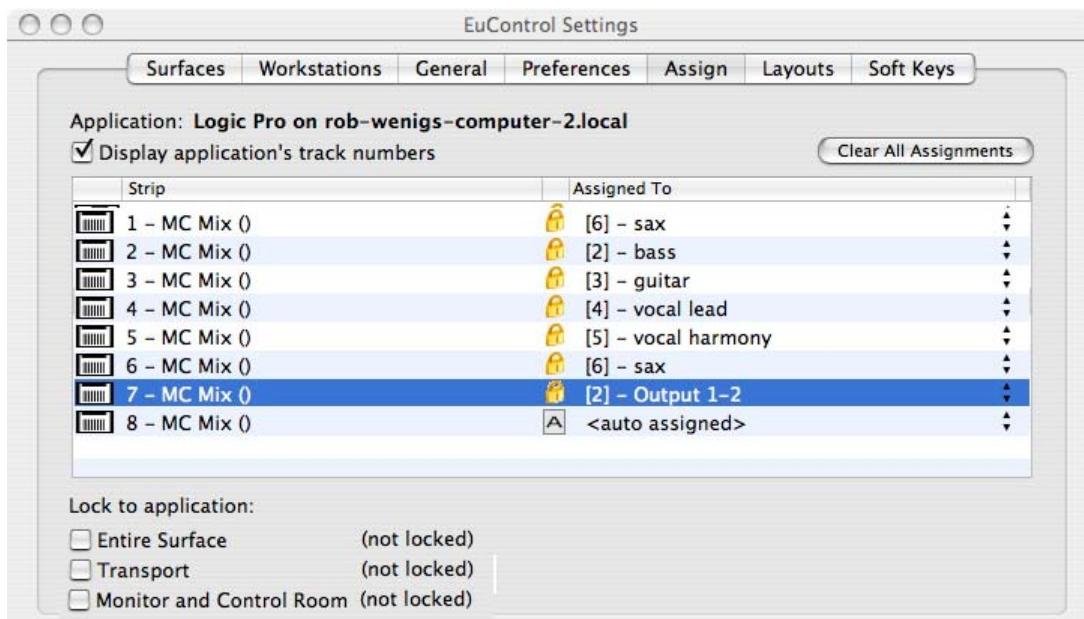


Figure 5-6 Assign tab

This tab manages how tracks are assigned to the MC Mix's strips. By default, tracks are automatically assigned in banks of eight.

NOTE: When a project is reopened, the first eight tracks are assigned to the strips.

Click in the Assigned To column to pop up a menu with the following options:

- **auto assigned:** Tracks are assigned automatically in response to the **Bank** and **Nudge** buttons.
- **attentioned/selected track:** This strip is assigned the attentioned track. A track can be attentioned by selecting in the application or by pressing the fader **SEL** key.
- **blank strip:** This strip is kept blank and will not be included in **NUUDGE** and **BANK** operations until a Layout is recalled or it is explicitly reassigned. This is useful when creating a Layout that does not require eight tracks.

In the popup menu, the current selection has a checkmark to its left.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.5.1 Display application's track numbers

Select this checkbox to display the track number in addition to the name.

NOTE: *Not all applications support track number display.*

5.5.2 Lock to application

This feature allows the transport controls and/or the entire surface to stay locked to the application listed at the top-left of the dialog (Logic Pro in Figure 5-6), even when that application is not top-most.

Entire Surface: Select this checkbox to lock the entire surface, including those of all linked Artist media controllers, to the listed application.

Transport: Select this checkbox to lock the transport controls to listed application.

Monitor and Control Room: This feature pertains to the MC Control, not the MC Mix.

50

5.5.3 Clear All Assignments

Click **Clear All Assignments** to set all strips to being automatically assigned.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

5.6 Layouts

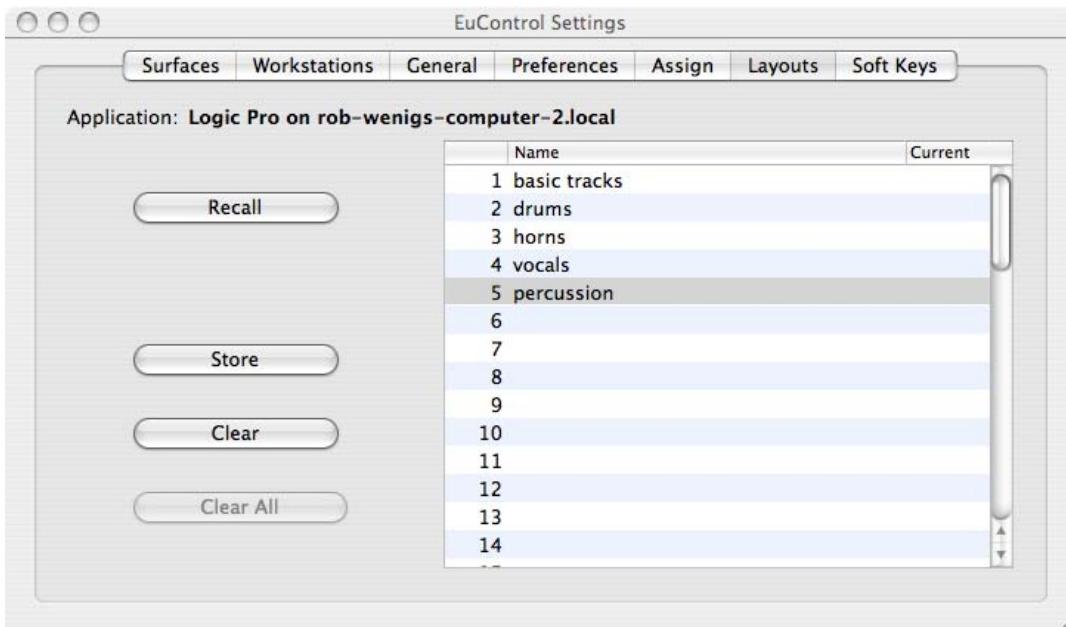


Figure 5-7 Layouts tab

The tracks assigned to the MC Mix strips can be saved as a Layout. A Layout is created from the current strip assignments and can receive a name. It can then be recalled at a later time.

5.6.1 Recall

Highlight a name in the Name column and click **Recall** to recall that Layout.

5.6.2 Store

Click **Store** to store the MC Mix's current track assignments as a new Layout. Double-click the default name in the Name column to edit the name.

5.6.3 Clear

Highlight a name in the Name column and click **Clear** to delete that Layout.

5.6.4 Clear All

Click **Clear All** to clear all Layouts. A dialog appears to confirm that you wish to delete all existing Layouts.

5.7 Soft Keys

The Soft Keys tab is relevant only for the MC Control. See the MC Control User Guide for details.

MC Mix

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Appendix A: Setting the IP Address

Most MC Mix users will never have to set a static Internet Protocol (IP) address but in the rare cases that require it, the MC Mix does allow for it.

Normally the MC Mix uses **Dynamic Host Configuration Protocol** (DHCP) to obtain its IP address, typically from a router. The MC Mix will revert to *link-local addressing* to generate an IP address if a DHCP server is not found on the network, such as when an MC Mix is connected directly to a computer with an Ethernet cable. Both of these methods of obtaining IP addresses can be overridden by supplying a static IP address, which the MC Mix uses in all cases when powered on.

CAUTION: Attempt this only if you have prior experience configuring a network.

To set a static IP address:

1. While holding down the **PAGE** \blacktriangleleft and **PAGE** \triangleright keys simultaneously, press and release the **POWER** switch.

Figure A-1 (left) shows the **Use DHCP** screen on fader strip 1's channel display on the MC Mix.

53



Figure A-1 Use DHCP yes (left); Use DHCP no (right)

2. Turn the knob underneath the display clockwise to change the underlined value from **yes (default)** to **no** (Figure A-1 right).

The Knob **SEL** and **ON** keys can be used instead of the knob to decrease or increase the value, respectively.

MC Mix

AUDIO | VIDEO MEDIA CONTROLLER

3. Press the **PAGE ▶** key to move the cursor to the next screen, in this case the first field of the **IP Address** screen (Figure A-2 left).

The Knob Top key can also be used to perform the same function as the **PAGE ▶** key.

Press the **PAGE ◀** key to move the cursor back to the previous field or screen to change a parameter to a different value.



Figure A-2 IP Address displays

4. Use the knob to set the first field of the **IP Address**.
5. Press the **PAGE ▶** key to move the cursor to the second field (Figure A-2 right).
6. Use the knob to set the second field of the **IP address**.
7. Use the techniques described to set the remaining **IP Address** fields.
8. After setting the last **IP Address** field, press the **PAGE ▶** key to move the cursor to the first field of the **Subnet Mask** screen (Figure A-3).



Figure A-3 Subnet Mask display

9. Use the techniques described to set the **Subnet Mask**.
10. Press the **PAGE ◀** and **PAGE ▶** keys simultaneously to save this static IP address. Power the MC Mix off and on to use the new IP address.

To cancel any changes made to the IP address at any time, power off the MC Mix before pressing the **PAGE ◀** and **PAGE ▶** keys simultaneously.